

FS-SERIES POD Unit

Technical Brochure



STERILIZATION OF BIOHAZARDOUS WASTEWATER

Simple but robust design allows for an under counter installation

- Easy to Operate
- Easy to Maintain

Can be custom designed to meet size and throughput needs

> 6 LOG₁₀ Sterilization

FEATURES:

- No material handling
- Warning indicator when full
- All wetted surfaces are stainless steel
- Automatic or manual start
- Sterilization cycle runs unattended to completion
- Automatic discharge
- Chart recorder available



GAP laboratory results available on request



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Operation description:

Contaminated effluent is held in an accumulation tank. When ready for processing, it is transferred to the decontamination vessel where redundant energy sources of heat and a high intensity microwave field sterilize the effluent. The system then begins a discharge and cooling cycle that runs until the vessel is completely emptied and ready for the next load.



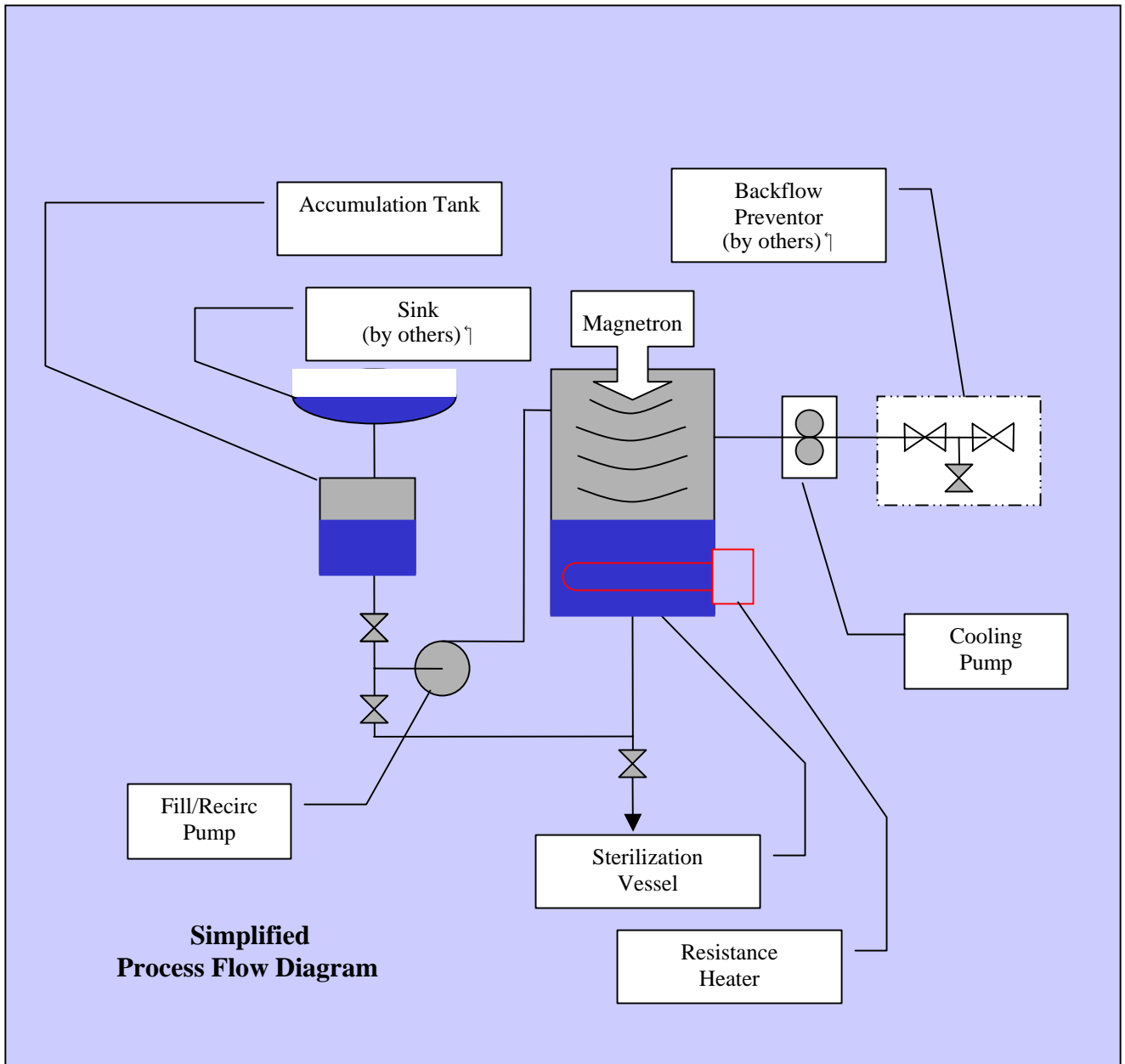
Technical Details:

- 480 VAC 50-60Hz (quick cycle version 70 min/cycle)
- 9 kW (40 Amp @ 480V 3 phase) †
- Accumulation tank 5-200 USG (depending on flow rates)
- Sterilization vessel 20 USG pressure rated @ 120 psi
- Operational capacity 90 USG/8hours – over 200 USG/day
- Accumulation tank may fit under sink
- Sterilization unit can fit under a counter
- Optional stand-alone cabinet
- Manual start with auto cycle standard
- Complete automatic operation available
- Service contract available



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Operational Cost

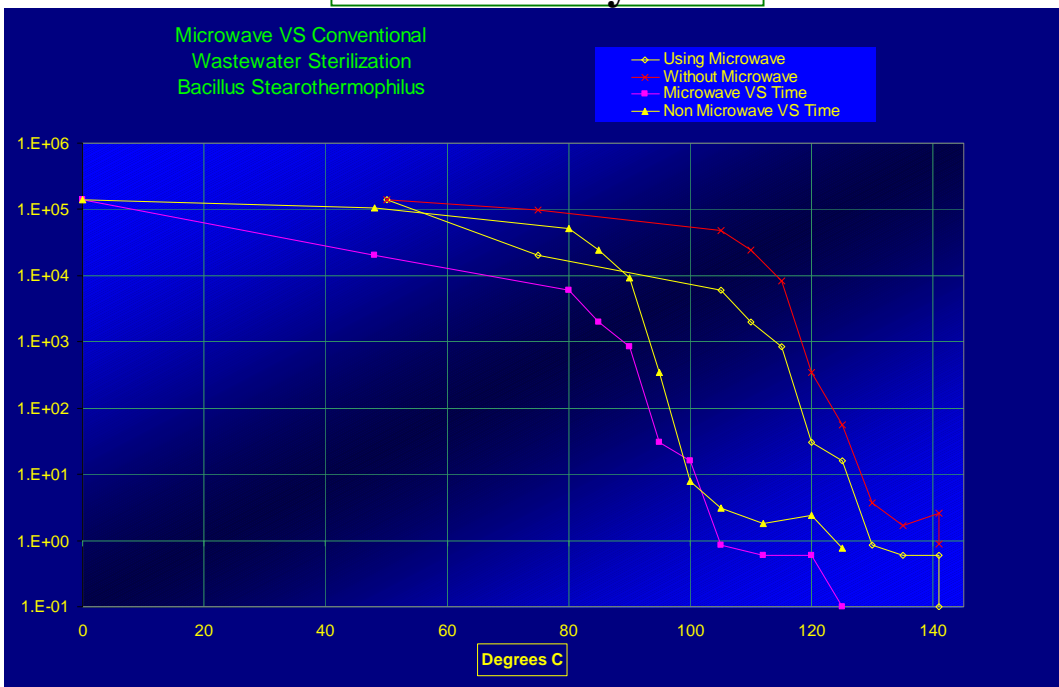
Estimated Cost Analysis

Watts	9 kW
Voltage	480 V 3ph
Amps	32.48 Amps (Actual)
Amps	40 Amps (Breaker Size)

Energy Cost per Cycle

(Operating Time in Hours x Amps Actual x Cost)/kWh	
Cost	0.07 per kWh
Cost	2.27 per Cycle
Cost per USG	0.15 Cost/Cycle/15USG

Efficacy



Microwave enhanced sterilization for Superior efficacy